

Figure
Gene - Nucleotide and Amino Acid Sequence of the h3D1 Light Chain

XbaI TCTAGACCACC ATG GAT TCA CAG GCC CAG GTT CTT ATA TTG
p1 M D S Q A Q V L I L
CTG CTG CTA TGG GTA TCT GGC ACC TGT GGG GAC ATT GTG
p11 L L L W V S G T C G D I V
CTG ACA CAG TCT CCA GAT TCC CTG GCT GTA AGC TTA GGA
p24 L T Q S F D S L A V S L G
GAG AGG GCC ACT ATT AGC TGC AAA TCC AGT CAG AGT CTG
p37 E R A T I S C K S S Q S L
CTC AAC AGT AGA ACC CGA GAG AAC TAC TTG GCT TGG TAC
p50 L N S R T R E N Y L A W Y
CAG CAG AAA CCA GGG CAG CCT CCT AAA CTG CTG ATC TAC
p63 Q Q K P G Q P P K L L I Y
TGG GCA TCC ACT AGG GAA TCT GGG GTC CCT GAT CGC TTC
p76 W A S T R E S G V P D R F
AGT GGC AGT GGA TCT GGG ACA GAT TTC ACT CTC ACC ATC
p89 S G S G S G T D F T L T I
AGC AGT CTG CAG GCT GAA GAC GTG GCA GTT TAT TAC TGC
p102 S S L Q A E D V A V Y Y C
ACG CAA TCT TAT AAT CTT TAC ACG TTC GGA CAG GGG ACC
p115 T Q S Y N L Y T F G Q G T
AAG GTG GAA ATA AAA C gtaagtagtcttctcaactctagaattctaa
p128 K V E I K XbaI
actctgagggggtcggatgacgtggccattctttgcctaaagcattgagtttac
tgcaagggtcagaaaagcatgcaaagccctcagaatggctgcaaagagctccaac
aaaacaatttagaacttttattaaggaatagggggaagctaggaagaactcaaa
acatcaagatttttaataacgcttcttgggtctccttgctataattatctgggata
agcatgctgttttctgtctgtccctaacatgccctgtgattatccgcaaacaaac
acacccaaggggcagaactttgttacttaaacaccatcctgtttgcttcttct

VK

(continued on the next page)

Figure
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Light

p133 cag GA ACT GTG GCT GCA CCA TCT GTC TTC ATC TTC CCG
 ▶ R T V A A P S V F I F P
 p145 CCA TCT GAT GAG CAG TTG AAA TCT GGA ACT GCC TCT GTT
 ▶ P S D E Q L K S G T A S V
 p158 GTG TGC CTG CTG AAT AAC TTC TAT CCC AGA GAG GCC AAA
 ▶ V C L L N N F Y P R E A K
 p171 GTA CAG TGG AAG GTG GAT AAC GCC CTC CAA TCG GGT AAC
 ▶ V Q W K V D N A L Q S G N
 p184 TCC CAG GAG AGT GTC ACA GAG CAG GAC AGC AAG GAC AGC
 ▶ S Q E S V T E Q D S K D S
 p197 ACC TAC AGC CTC AGC AGC ACC CTG ACG CTG AGC AAA GCA
 ▶ T Y S L S S T L T L S K A
 p210 GAC TAC GAG AAA CAC AAA GTC TAC GCC TGC GAA GTC ACC
 ▶ D Y E K H K V Y A C E V T
 p223 CAT CAG GGC CTG AGC TCG CCC GTC ACA AAG AGC TTC AAC
 ▶ H Q G L S S P V T K S F N
 p236 AGG GGA GAG TGT TAG agggagaagtgcacccacctgctcctcagttc
 ▶ R G E C Stop

CK

cagcctgaccccccctcccatcctttggcctctgacccctttttccacaggggac
 ctacccctattgcggtccctccagctcatctttcacctcaccctccctcct
 ccttggttttaattatgctaagtgtggaggagaatgaataaataaagtga
 tctttgcacctgtggtttctctctttcctcatttaataattattatctgttg
 ttttaccaactactcaatttctcttataagggactaaatatgtagtcacct
 aaggcgcataccattttataaaaatcatccttcattctattttaccctatca
 tcctctgcaagacagtcctccctcaaacccacaagccttctgtcctcacagt
 cccctgggcatggtaggagagacttgcttccttggttttccctcctcagca
 agccctcatagtcctttttaagggtgacaggtcttacagtcatatatccttt
 gattcaattccctgggaatcaaccaagcaaatttttcaaaagaagaacct
 gctataaaagagaatcattcattgcaacatgatataaaataacaacacaataa
 aagcaattaaataaacaacaataagggaaatgtttaagttcatcatggtact
 tagacttaatggaatgtcatgccttatttacatttttaaacagggtactgagg
 gactcctgtctgccaagggtgattgagtagtctttccacaacctaatattaat
 ccacactatactgtgagattaaaaacattcattaaaatgttgcaaagggtct
 ataaagctgagagacaaatatattctataactcagcaatcccacttctagga
 tcaattc

Figure
Gene

Nucleotide and Amino Acid Sequence of the h3D1 Heavy Chain

XbaI TCTAGACCACC ATG GGT TGG AAC TGT ATC ATC TTC TTT CTG
 p1 ▶ M G W N C I I F F L
 GTT ACC ACA GCT ACA GGT GTG CAC TCC CAG GTC CAG CTG
 p11 ▶ V T T A T G V E S Q V Q L
 GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT GGG AGC TCA
 p24 ▶ V Q S G A E V K K P G S S
 GTG AAG GTG TCC TGC AAA GCT TCC GGC TAC ACA TTC ACT
 p37 ▶ V K V S C K A S G Y T F T
 GAT TAT GCT ATA CAG TGG GTG AGA CAG GCT CCT GGA CAG
 p50 ▶ D Y A I Q W V R Q A P G Q
 GGC CTC GAG TGG ATT GGA GTT ATT AAT ATT TAC TAT GAT
 p63 ▶ G L E W I G V I N I Y Y D
 AAT ACA AAC TAC AAC CAG AAG TTT AAG GGC AAG GCC ACA
 p76 ▶ N T N Y N Q K F K G K A T
 ATG ACT GTA GAC AAG TCG ACG AGC ACA GCC TAT ATG GAA
 p89 ▶ M T V D K S T S T A Y N E
 CTT AGT TCT TTG AGA TCT GAG GAT ACG GCC GTT TAT TAC
 p102 ▶ L S S L R S E D T A V Y Y
 TGT GCA AGA GCG GCC TGG TAT ATG GAC TAC TGG GGT CAA
 p115 ▶ C A R A A W Y M D Y W G Q
 GGT ACC CTT GTC ACC GTC TCC TCA G gtgagtccttaaaacctc
 p128 ▶ G T L V T V S S XbaI
 tagagcttttctggggcgagccgggctgactttggctttggggcagggagtg
 ggctaagggtgaggcaggtggcgccagccaggtgcacacccaatgcccgtgag
 ccagacactggacctgacctggacctctgtggatagacaagaaccgagggg
 cctctgcgcctggggccagctctgtcccacaccgcggtcacatggcaccac
 ctctcttgag CC TCC ACC AAG GGC CCA TCG GTC TTC CCC
 p136 ▶ A S T K G P S V F P
 CTG GCG CCC TGC TCC AGG AGC ACC TCC GAG AGC ACA GCG
 p146 ▶ L A P C S R S T S E S T A
 GCC CTG GCG TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG
 p159 ▶ A L G C L V K D Y F P E F
 GTG ACG GTG TCG TGG AAC TCA GGC GCT CTG ACC AGC GGC
 p172 ▶ V T V S W N S G A L T S G
 GTG CAC ACC TTC CCA GCT GTC CTA CAG TCC TCA GGA CTC
 p185 ▶ V H T F P A V L Q S S G L
 TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AAG
 p198 ▶ Y S L S S V V T V P S S N
 TTC GGC ACC CAG ACC TAC ACC TGC AAC GTA GAT CAC AAG
 p211 ▶ F G T Q T Y T C N V D H K
 CCC AGC AAC ACC AAG GTG GAC AAG ACA GTT G gtgagaggcc
 p224 ▶ P S N T K V D K T V
 agctcaggggagggaggggtgtctgctggaagccagggctcagccctctgctg
 gacgcaccccggtgtgtcagcccccagccagggcaggaaggcagggcccatc
 tgtctctcaccggaggcctctgccccccccactcatgtctcaggagagagg

VH

CH1

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Figure (cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Heavy Chain Gene

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tcttctggctttttccaccagggtccaggcaggcacaggctgggtgcccctacc
ccaggcccttcacacacaggggcaggtgcttggctcagacctgccaaaagccat
atccgggaggaccttgcccctgacctaaagccgaccccaaggccaaactgtcca
ctccctcagctcggacaaccttctctcctccagatccgagtaactcccaatctt
ctctctgcag AG CGC AAA TGT TGT GTC GAG TGC CCA CCG TGC
p234   ▶ E R K C C V E C P P C
CCA G gtaagccagcccaggcctcgccctccagctcaaggcgggacaggtgcc
p245 ▶ P
ctagagtagcctgcateccagggacaggccccagctgggtgctgacacgtccacc
tccatctcttctcag CA CCA CCT GCG GCA GCA CCG TCA GTC
p246   ▶ A F P A A P S V
TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC
p255 ▶ F L P P P K P K D T L M I
TCC CGG ACC CCT GAG GTC ACG TGC GTG GTG GAC GTG
p268 ▶ S R T P E V T C V V V D V
AGC CAC GAA GAC CCC GAG GTC CAG TTC AAC TGG TAC GTG
p281 ▶ S E E D P E V Q P N W Y V
GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCA CCG
p294 ▶ D G V E V H N A K T K P R
GAG GAG CAG TTC AAC AGC ACG TTC CGT GTG GTC AGC GTC
p307 ▶ E E Q F N S T P R V V S V
CTC ACC GTT GTG CAC CAG GAC TGG CTG AAC GGC AAG GAG
p320 ▶ L T V V E Q D W L N G K E
TAC AAG TGC AAG GTC TCC AAC AAA GGC CTC CCA GCC CCC
p333 ▶ Y K C K V S N K G L P A P
ATC GAG AAA ACC ATC TCC AAA ACC AAA G gtgggacccgcgggggt
p346 ▶ I E K T I S K T K
atgagggccacatggacagaggccgggtcgggccaccctctgcccctgggagtgga
ccgctgtgccaaacctctgtccctacag GG CAG CCC CGA GAA CCA
p355   ▶ G Q P R E F
CAG GTG TAC ACC CTG CCC CCA TCC CGG GAG GAG ATG ACC
p261 ▶ Q V Y T L P P S R E E M T
AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC
p374 ▶ K N Q V S L T C L V K G F
TAC CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG
p387 ▶ Y P S D I A V E W E S N G
CAG CCG GAG AAC AAC TAC AAG ACC ACA CCT CCC ATG CTG
p400 ▶ Q P E N N Y K T T P P M L
GAC TCC GAC GGC TCC TTC TTC CTC TAC AGC AAG CTC ACC
p413 ▶ D S D G S F P L Y S K L T
GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA
p426 ▶ V D K S R W Q Q G N V F S
TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG
p439 ▶ C S V M E E A L E N H Y T
CAG AAG AGC CTC TCC CTG TCC CCG GGT AAA TGA GTGAATTC
p452 ▶ Q K S L S L S P G K EcoRI

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H

CH2

CH3